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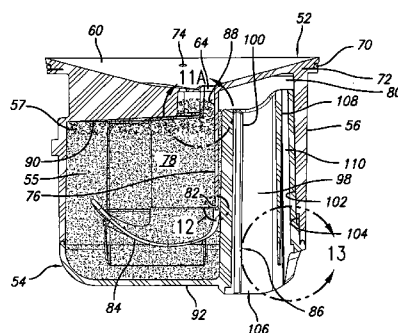
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(54) Title: ANTI-SIPHON TRAP WITH SNORKEL FOR A WATERLESS URINAL

FIG. 11



(57) Abstract: A cartridge for a waterless urinal, having an inlet compartment (78,) has a ceiling (90), which is spaced from the cartridge upper wall (60) and from the wastewater-receiving opening (64) therein. A throat (88), which communicates the inlet compartment with the wastewater-receiving opening, has an area which is less than the area of the ceiling. Further, a discharge section (86) is coupled between an outlet compartment (80) and the external drain and includes a drain tube (98) and communicating with the outlet compartment and opening at an exit port area (106) for discharge of the wastewater fluid. A three rib channel guide mechanism (100) is formed within the tube to guide flow of the wastewater. In addition, the discharge section drain tube (98) includes a snorkel (110) which extends downwards to above the level of the horizontal drain, to allow any air from the external drain to pass to the outlet compartment generally below the ceiling (90) to prevent any syphoning.